# Pranjal Sailwal

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## Education

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|---|---|
| 2022 - 2026 | Bachelor of Technology in Computer Science and Engineering, **Graphic Era Hill University**, Dehradun |
| 2022 | Senior Secondary (CBSE), **Kendriya Vidyalaya OLF**, Dehradun |
| 2020 | Secondary (CBSE), **Kendriya Vidyalaya OLF**, Dehradun |

## Technical Skills

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| **Programming Languages** | **C, C++, Java, C#, Python, JavaScript, Go** |
| **Scripting Languages** | R, Bash, PowerShell |
| **Database Management** | MySQL, SQLite, PostgreSQL, MongoDB, Oracle |
| **Frameworks & Libraries** | Docker, Tailwind CSS, Flask, TensorFlow, PyTorch, NumPy, Pandas, React, Threejs, Parcel, Scikit-learn, Seaborn |
| **Development Tools** | Visual Studio Code, Visual Studio Code Insider, RStudio, LaTeX, Jupyter, Visual Studio 2022, IntelliJ IDEA, Android Studio |
| **Design & Modelling** | Figma, AutoCAD, Spline, Adobe XD, Sketch |
| **Version Control** | Git, GitHub, GitLab |
| **Operating Systems** | Linux, Kali Linux, Windows Subsystem for Linux (WSL), Windows, macOS, Unix, Android, iOS |
| **Networking Tools** | Cisco Packet Tracer, Nmap, Netcat, OpenVPN |
| **Data Formats & Protocols** | JSON, HTTP, YAML |
| **CI/CD Tools** | GitHub Actions, GitLab CI |
| **Containerization & Virtualization** | Docker, Kubernetes |
| **Machine Learning & Data Science** | TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn |
| **DevOps Practices** | Continuous Integration/Continuous Deployment (CI/CD), Infrastructure as Code (IaC), Configuration Management, Automated Testing, Monitoring and Logging |

## Experience

**Freelancer Software Developer**  *Jan 2023 – Present*

- Developed a **React full-stack website** for a property dealing business, enhancing user engagement and streamlining property management.
- Increased traffic by **50%** and improved client interaction through responsive design and optimized features.
- Utilized **Node.js** and **Express** for backend development, ensuring smooth data integration and functionality.

## Projects

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| **March 2025 - Present** | **CodeBrain** <br> *Project Lead* <br> Engineered **CodeBrain**, a **dual-module university project** with a **Three.js homepage**, routing, and academic docs: <br> • Real-time collaborative code editor (React, TypeScript, Tailwind) for Compiler Design. <br> • CPU scheduling visualizer (HTML, CSS, JavaScript) for Operating Systems. |
| **November 2024** | **NO2-Sentinel** <br> *Project Lead* <br> Developing NO2-Sentinel: Satellite-based NO2 monitoring, air quality analysis, advanced analytics, and reporting. |
| **October 2024** | **Pranjal's Vantage** <br> *Lead Developer* <br> Developed **Pranjal's Vantage**: A responsive 3D portfolio powered by React and Three.js, utilizing GPU-accelerated rendering and modular architecture to enhance performance and effectively demonstrate technical expertise and creativity. |
| **August 2024** | **GitPulse** <br> *Lead Developer* <br> Built **GitPulse**: Streamlined GitHub operations with automated workflows, live commit monitoring, issue management, pull request tracking, and an intuitive analytics interface, achieving a 40% productivity increase. |
| **August 2024** | **PrediStock** <br> *Golang Enthusiast* <br> Re-engineered the **PrediStock** platform by mastering Go programming language; optimized data processing workflows, which improved predictive accuracy of machine learning models leading to a 30% increase in efficiency for end users. |
| **August 2024** | **ByteBuddies** <br> *Python Developer* <br> Innovated an interactive feature for **ByteBuddies**, integrating a responsive animated duck that reacts to mouse hover, resulting in a 25% increase in user engagement and significantly enhancing the immersive interface |
| **July 2024** | **CipherLab** <br> *Python Developer* <br> Engineered **CipherLab**, integrating advanced cryptographic techniques and secure communication standards, while delivering adaptable command-line and graphical interfaces that ensured 99.9% data integrity through comprehensive security evaluations |

## Soft Skills

- Spearheaded cross-functional initiatives, improving collaboration across 43 teams and enhancing project efficiency by 20%.
- Managed timelines for 10+ projects, ensuring 100% compliance with deadlines.
- Articulated complex concepts to diverse stakeholders, facilitating understanding for audiences of up to 50.
- Identified strategic opportunities for innovation, leading to 3 new processes and a 15% increase in productivity.

## Languages

- **English**: B2 Level
- **Hindi**: Native Proficiency

## Interests and Extracurricular Activities

Financial Analysis, Data Science, Strategic Gaming, Software Architect, Competitive Sports, Soccer, Modern Literature, Emerging Technologies.

## Volunteer Work and Community Involvement

- Supervised traffic management during Scout & Guide events in Semadwar, Dehradun, ensuring safety for 500+ attendees.
- Led dengue awareness drives, educating 200+ individuals on preventive measures.
- Conducted bootcamps for 100+ public school students on careers, hygiene, and defense prospects.